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Abstract (en)
[origin: WO2019224400A1] The invention relates to a magnetic absolute encoder for determining the absolute position of two bodies movable relative to one another with respect to an angular position or a length position, having at least one first material measure defining an absolute track and comprising a plurality of first code elements having magnetic properties, comprising at least one first magnetic field sensor arrangement for sensing stray magnetic fields caused by the first material measure, and comprising an evaluation unit, which is designed to receive measurement signals from the first magnetic field sensor arrangement. It is proposed that each of the first code elements is arranged offset by a particular coding offset, in particular symmetrically offset, with respect to a virtual reference position associated with the first code element in a 1:1 relationship, the virtual reference positions being defined equidistantly and offset-free along the absolute track, each first code element encoding a certain character of a code comprising N characters at least on the basis of the coding offset of the code element, and the evaluation unit being designed, on the basis of the measurement signals, to determine the coding offset of a sensed first code element and the character encoded by said coding offset.

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WO 2010117891 A2 20101014 - TIMKEN CO [US], et al

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